

# SCIENCE

# And Technology Program



Theme Area: Water Resources

Program Area: Watershed and River Systems Management Program

Project No.: WR00.07

Project Title: Tualatin Project AWARDS System

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**Abstract:** This research project is for the transfer of the AWARDS (Agricultural Water Resources Decision Support) system that is being implemented in the Rogue River Basin in southwestern Oregon, to the Tualatin Project, which is west of the city of Portland, Oregon. The primary area of research for FY 2000 will be improving the NEXRAD radar-based quantitative precipitation estimates (QPE) over rough terrain. Other work will include developing the GIS layers for the 230 km radius area of the Portland NEXRAD radar site, and providing daily evapotranspiration (ET) estimates and forecasts to users via the Internet. Reclamation's field office in Bend, Oregon, will provide project oversight and some cost sharing. Reclamation's AgriMet program in the PN Region will continue to provide data from the AgriMet weather stations and ET estimates. For a few AgriMet stations that are important to the study, they will partner in replacing non-heated tipping bucket precipitation gages with all-season gages, and adding wind shields. The Tualatin Valley Irrigation District (TVID) has developed an excellent GIS Land Use data base that will be provided for the study. They will also partner in implementing the AWARDS system within the TVID. The project will also use NWS/NRCS/BLM/USFS resources in the study area.

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